

Serial No. 08/446,553  
Docket No. 5634.0104

#27  
3-29-02  
NP

THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : John C. Harvey and  
James W. Cuddihy

Serial No. : 08/446,553

Docket No. : 5634.0104

Filed : May 19, 1995

For : SIGNAL PROCESSING APPARATUS AND METHODS

Group Art Unit : 2699

Examiner : FAILE, A.

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**Box: FEE-AMENDMENT**

Commissioner for Patents  
Washington, D.C. 20231

Technology Center 2600

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Sir:

In accordance with 37 C.F.R. §§ 1.56, 1.97, and 1.98, Applicants respectfully request consideration of the references listed on the attached Form PTO-1449.

Applicants respectfully request that the Examiner consider the references cited on the PTO-1449 and that the Examiner indicate that the references have been considered in this application by returning a copy of the Form PTO-1449 with the Examiner's initials in the left column per M.P.E.P. § 609.

**I. Description of the References**

The references identified in this Supplemental Information Disclosure Statement ("Supplemental IDS") can be grouped into two categories. *First*, applicants have identified in this Supplemental IDS references made of record in applicants' related applications that have not previously been made of record in the instant case.

*Second*, this Supplemental IDS identifies two new references that have not previously been identified in this application or any other related applications to date. These two new references are Japanese references that came to applicants' attention during the prosecution of applicants' applications pending in Japan. These new references are: JP 59-224988 and JP 61-174889.

## **II. Description of Corrections**

In the course of preparing this Supplemental IDS applicants identified a number of miscellaneous inadvertent clerical errors contained in previously filed information disclosure statements. Applicants have corrected any such inadvertent errors with respect to references that are identified in this Supplemental IDS. With respect to inadvertent errors that occurred in information disclosure statements previously filed in this application applicants' identify and correct such inadvertent errors as follows:

- In the May 11, 2001 Information Disclosure Statement, the foreign patent reference previously identified as JP 59-50134 is correctly identified as JP 59-501340. Also in the May 11, 2001 Information Disclosure Statement, the foreign patent reference FR 79-03351 identifies the French application number. The correct identification of this reference is publication number FR 2,417,226.
  - With respect to foreign patent references in various information disclosure statements, information regarding the publication dates of these references may not have been supplied or may have been incorrectly identified.
- Additionally, applicants made inadvertent errors with respect to the provision of translations for certain foreign language references. A

corrected complete list of all foreign references made of record in applicants' related pending applications is identified in Appendix A.

- In the concise explanation previously provided for foreign reference DE 2,338,330, this reference was misidentified. The correct patent number for this German reference is DE 2,338,380.

### **III. Concise Explanations of Foreign Language References**

Applicants unintentionally may not have provided concise explanations for certain previously identified foreign language references. Concise explanations for these references are provided in Appendix B. Additionally, in Appendix B applicants provide concise explanations for the two new Japanese references cited for the first time in this Supplemental IDS. Applicants' submission of Appendix B meets the requirements regarding a concise explanation of foreign references as set forth in 37 CFR 1.98 and M.P.E.P. § 609.

### **IV. Conclusion**

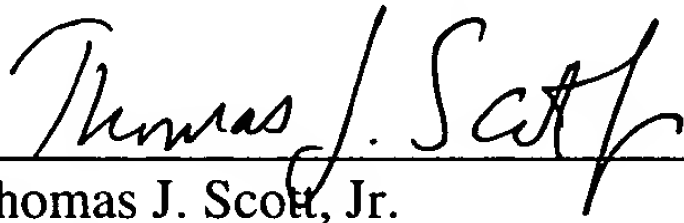
Pursuant to an agreement reached between the Examiner and applicants (see first Office Action issued in this application), applicants are not submitting copies of the references cited in this Supplemental IDS where applicants have previously provided copies of all of the references cited herein in related applications. Applicants are presently providing newly acquired translations of three Japanese patent applications, 58-99817, 56-84340 and 58-29020 in applicants' application number 08/113,329, pursuant to the same agreement mentioned above.

This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection or Notice of Allowance. 37 C.F.R. § 1.97(c).

Submitted herewith is a check in the amount of \$180.00 to cover the fee for filing this Supplemental Information Disclosure Statement under 37 C.F.R. § 1.17(p). Any deficiency in or overpayment of this fee should be charged or credited to Deposit Account No. 50-0206.

Date: March 21, 2002  
**HUNTON & WILLIAMS**  
1900 K Street, N.W.  
Washington, DC 20006

Respectfully submitted,

  
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# APPENDIX A

## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION	
				NO	YES
20,242	12/10/80	EPO	G09G 1/16	X	
46,108	02/17/82	EPO	H04N 5/76	X	
49,184	04/07/82	EPO	G09B 7/08	X	
53,984**		Japan		X	
55,167	06/30/82	EPO	G09G 1/16	X	
55,674	07/07/82	EPO	07/07/82		
56,649	07/28/82	EPO	H04N 5/44		
481,565	04/29/76	Australia			
77,712	04/27/83	EPO	H04N 7/00	X	
78,185	05/04/83	EPO	H04N 7/00	X	
103,438	03/21/84	EPO	H04N 7/10		
128,481	12/19/84	EPO	H04N 7/00		
132,007	01/23/85	EPO	H04N 7/16		
133,985	03/13/85	EPO	H 04 N 7/087		
152,251	08/21/85	EPO	H04H 1/2		
187,417	07/16/86	EPO	H04 N 7/087		
206,821	12/30/86	EPO	H04N 7/00		
217,308	04/08/87	EPO	H04M 11/00		
857,862	1/4/61	Great Britain	40 (1)		
959,274	05/27/64	Great Britain			
1,066,931	04/26/67	Great Britain	G 07c		
1,189,612	06/25/85	Canada	Ho4n 7/08		
1,204,190	09/03/70	Great Britain			
1,213,357	11/25/70	Great Britain			
1,216,977	01/20/87	Canada	HO4M 11/00		
1,370,535	10/16/74	Great Britain	GO9G1/16		
1,396,981	06/11/75	Great Britain	H04H 1/00		
1,515,309	06/21/78	Great Britain	G06 K 15/20		
1,523,307	08/31/78	Great Britain	H03K 5/08		
1,543,502	04/04/79	Great Britain	G08B9/00		
1,554,411	10/17/79	Great Britain	H04b 3/54		
1,556,366	11/21/79	Great Britain			
1,582,563	01/14/81	Great Britain	G08B9/00		
1,584,111	02/04/81	Great Britain	G08B9/00		
2,016,874	02/01/79	Great Britain			
2,033,699	05/21/80	Great Britain	H04L 1/10, 1/40		
2,034,995	06/11/80	Great Britain	H03J 7/18, 5/00		

DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION NO	YES
2,051,527	01/14/81	Great Britain	G06F 3/153		
2,058,681	06/15/72	Germany	H04N 7/08	X	
2,067,379	07/22/81	Great Britain	H04L 1/24		
2,081,948	02/24/82	Great Britain	H04Q 9/00		
2,090,504	07/07/82	Great Britain	H04N 3/16		
2,103,455	02/16/83	Great Britain	H04N 1/00 7/12		
2,126,002	03/14/84	Great Britain	G11B 15/02		
2,140,963	12/05/84	Great Britain			
2,141,897	01/03/85	Great Britain	H04N 7/16		
2,164,229	03/12/86	Great Britain			
2,167,917	06/04/86	Great Britain			
2,185,670	07/22/87	Great Britain	H04N 7/087		
2,338,380	02/13/75	Germany		X	
2,356,969	05/22/75	Germany			X
2,417,226	02/01/79	France		X	
2,453,441	05/13/76	Germany	H04L 9/00	X	
2,496,376	06/18/82	France	H04N 7/00	X	
2,516,733	05/05/83	France	H04N 7/00	X	
2,550,624	05/26/77	Germany		X	
2,823,175	11/29/79	Germany	G06F 3/12	X	
2,831,014	04/03/80	Germany		X	
2,853,764	01/29/81	Germany		X	
2,904,891	08/16/79	Germany			X
2,918,846	11/13/80	Germany	F26B 12/02		X
3,020,787	12/17/81	Germany	H04N 7/08	X	
3,039,949	05/06/82	Germany	H04M 3/42	X	
3,112,249	10/07/82	Germany	G09G 1/28	X	
3,143,627	05/11/83	Germany			X
3,337,204	04/25/85	Germany	H04N 5/44	X	
53-068124	06/17/78	Japan			X
53-11515	02/02/78	Japan		X	
53-121420	10/23/78	Japan		X	
55-028691	02/29/80	Japan			X
55-26792	02/26/80	Japan		X	
55-49084	04/08/80	Japan			X
55-500886	10/30/80	Japan		X	
55-79585	06/16/80	Japan		X	
56-47179	04/28/81	Japan			X
56-51161	05/08/81	Japan			X
57-199377	12/07/82	Japan			X
58-156279	09/17/83	Japan		X	

DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION NO YES	
58-209276	12/06/83	Japan			X
59-154886	09/03/84	Japan			X
59-160387	09/11/84	Japan	H04N 7/10		X
59-224988	12/17/84	Japan			X
59-501340	03/23/84	Japan		X	
60-123182	07/01/85	Japan			X
60-146587	08/02/85	Japan		X	
60-149281	08/06/85	Japan		X	
60-256289	12/17/85	Japan	H04N 7/173		X
60-61935	04/09/85	Japan	G11B15/02	X	
61-148988	07/07/86	Japan	H04N 7/173		X
61-174889	08/06/86	Japan		X	
61-20441	01/29/86	Japan		X	
61-267474	11/27/86	Japan		X	
61-50470	03/12/86	Japan	H04N 5/44	X	
PL 204,525	02/09/78	Poland		X	
WO 80/00292	02/21/80	PCT Appl.	H04N9/16	X	
WO 80/02093	10/02/80	PCT Appl.	H04B 1/20		
WO 80/02901	12/24/80	PCT Appl.	H04N 7/16	X	
WO 81/02961	10/15/81	PCT Appl.	H04N 7/16, 7/04		
WO 83/00789	03/03/83	PCT Appl.	H04N 7/08	X	
WO 85/03604	08/15/85	PCT Appl.	H03K 3/84		
WO 85/03830	08/29/85	PCT Appl.	H04N 7/16		
WO 87/04884	08/13/87	PCT Appl.	H04M 11/08		

\*\* Japanese reference 53,984 to Jinno was cited by the Examiner in Application No. 08/470,447. The Examiner did not supply a publication date and applicants have been unable to determine a publication date for this reference.

**APPENDIX B**

**Concise Explanations for Foreign References**

**JP 61-174889            August 6, 1986            Japan**

Foreign language patent JP 61-174889 came to applicants' attention during the prosecution of applicants' applications pending in Japan.

**FR 2,417,226            February 1, 1979            France**  
**PL 204,525            February 9, 1978            Poland**

The French reference 2,417,226 and Polish reference PL 204,525 are both applications filed by Zaboklicki. The PTO has cited the German application filed by Zaboklicki which claims priority to the Polish Zaboklicki application. Translations of the German Zaboklicki application have been provided to the Examiner.

**DE 2,831,014            April 3, 1980            Germany**

The German reference DE 2,831,014 was applied by the Examiner in the September 4, 2001 Office Action in Application No. 08/487,526.

**JP 55-26792            February 26, 1980            Japan**

The Japanese reference JP 55-26792 was applied by the Examiner in the August 27, 2001 Office Action in Application No. 08/470,571.

**WO 80/02901            December 24, 1980            France**

The WO 80/02901 reference discloses a television system with a double key encryption service for subscription television.

**DE 3,337,204            April 3, 1980            Germany**

German reference DE 3,337,204 discloses a viewer interactive program schedule.



The following Japanese references were identified on applicants' on May 11, 2001 IDS, but explanations were unintentionally not provided. All of these applications came to applicants' attention during the prosecution of applicants' applications pending in Japan.

<b>JP 53-11515</b>	<b>February 2, 1978</b>	<b>Japan</b>
<b>JP 53-121420</b>	<b>October 23, 1978</b>	<b>Japan</b>
<b>JP 55-500886</b>	<b>October 30, 1980</b>	<b>Japan</b>
<b>JP 59-501340</b>	<b>March 23, 1984</b>	<b>Japan</b>
<b>JP 60-146587</b>	<b>September 2, 1985</b>	<b>Japan</b>
<b>JP 61-20441</b>	<b>January 29, 1986</b>	<b>Japan</b>
<b>JP 61-267474</b>	<b>November 27, 1986</b>	<b>Japan</b>

The following references were cited on PTO form 892 by the Examiners in applicants related pending applications.

<b>JP 58-156279</b>	<b>September 17, 1983</b>	<b>Japan</b>
<b>JP 55-79585</b>	<b>June 16, 1980</b>	<b>Japan</b>

<p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p><b>UNITED STATES PATENT &amp; TRADEMARK OFFICE</b></p> <p><b>CITATION FORM</b></p> <p><b>ESTABLISHED</b></p> <p><b>MAR 21 2002</b></p>	Attorney Docket No.	Serial No.
	05634.0104	08/446,553
	Applicant(s)	
	John C. Harvey and James W. Cuddihy	
	Filing Date	Group Art Unit
	May 19, 1995	2699

UNITED STATES PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE*
	1,992,271	02/26/35	Williams		
	2,046,381	07/07/36	Hicks et al.		
	2,192,217	03/05/40	Bellamy, et al.		
	2,217,881	10/15/40	Allen		
	2,236,077	03/25/41	Smith		
	2,264,563	12/02/41	Bumstead		
	2,570,209	10/09/51	Cotsworth, III		
	2,855,993	10/14/58	Rahmel	358/84	
	2,995,624	08/08/61	Watters		
	3,011,153	11/28/61	Haselton et al.		
	3,029,308	04/10/62	Adler et al.		
	3,082,402	03/19/63	Scantlin		
	3,366,731	01/30/68	Wallerstein		
	3,612,752	10/12/71	Banning, Jr.	178/5.1	
	3,764,983	10/09/73	Stok	340/150	
	3,778,058	12/11/73	Rausch	463/3	
	3,778,721	12/11/73	Moran	325/396	
	4,035,838	07/12/77	Bassani et al.	358/86	
	4,059,729	11/22/77	Eddy et al.	179/15 BF	
	4,061,879	12/06/77	Wintzer	179/15 BA	
	4,162,483	07/24/79	Entenman	340/147 R	
	4,199,791	04/22/80	Corey	360/69	
	4,225,918	09/30/80	Beadle et al.	364/200	
	4,319,353	03/09/82	Alvarez, III et al.	370/104	02/29/80
	4,365,249	12/21/82	Tabata	340/825.3	09/29/80
	4,383,273	05/10/83	Lunn	348/725	12/29/80
	4,386,416	05/31/83	Giltner et al.	364/900	06/02/80
	4,425,664	01/10/84	Sherman et al.	375/8	
	4,426,698	01/17/84	Pargee, Jr.	371/37	08/24/81
	4,439,785	03/27/84	Leonard	358/120	11/17/80
	4,489,220	12/18/84	Oliver	179/2 AM	
	4,494,142	01/15/85	Mistry	358/118	
	4,495,623	01/22/85	George et al.	371/38	09/02/82
	4,496,975	01/29/85	Noirel	358/147	
	4,510,623	04/09/85	Bonneau et al.	455/181	
	4,532,540	07/30/85	Wine	358/12	03/28/83
	4,540,849	09/10/85	Oliver	179/2 AM	
	4,543,616	09/24/85	Brooks	358/335	
	4,554,584	11/19/85	Elam et al.	358/165	
	4,563,702	01/07/86	Heller et al.	358/119	

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EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE*
	4,570,930	02/18/86	Matheson	273/1 E	
	4,578,536	03/25/86	Oliver et al.	179/2 AM	
	4,578,718	03/25/86	Parker et al.	360/10.3	
	4,594,609	07/10/86	Romao et al.	358/119	
	4,595,952	06/17/86	Filliman	358/47	
	4,600,918	07/15/86	Belisomi et al.	340/711	
	4,600,921	07/15/86	Thomas	340/825.31	
	4,605,964	08/12/86	Chard	358/147	
	4,621,259	11/04/86	Schepers et al.	340/707	03/18/83
	4,621,285	11/04/86	Schilling et al.	358/120	12/10/80
	4,623,920	11/18/86	Dufresne et al.	358/122	01/20/83
	4,626,892	12/02/86	Nortrup et al.	358/21 R	03/05/84
	4,633,297	12/30/96	Skerlos et al.	358/22	04/01/85
	4,636,858	01/13/87	Hague et al.	358/147	10/30/84
	4,638,357	01/20/87	Heimbach	358/121	01/20/84
	4,644,396	02/17/87	Iwasaki	380/6	05/24/85
	4,649,533	03/10/87	Chorley et al.	370/58	10/25/83
	4,658,290	04/14/87	McKenna	358/84	10/05/84
	4,710,919	12/01/87	Oliver et al.	370/96	10/21/83
	4,718,107	04/05/88	Hayes	455/4	02/14/86
	4,723,302	02/02/88	Fulmer et al.	455/2	08/25/86
	4,736,422	04/05/88	Mason	380/120	02/22/85
	4,751,732	06/14/88	Kamitake	380/20	06/24/85
	4,768,229	08/30/88	Benjamin et al.	380/20	07/21/86
	4,785,420	11/15/88	Little	364/513.5	04/09/86
	4,796,181	01/03/89	Wiedmer	364/406	10/24/86
	4,805,020	02/14/89	Greenberg	358/147	02/03/87
	4,809,274	02/28/89	Walker et al.	371/37	09/04/87
	4,816,904	03/28/89	McKenna et al.	358/84	04/10/87
	4,825,050	04/25/89	Griffith et al.	235/379	09/13/83
	4,841,386	06/20/89	Schiering	360/69	09/11/87
	4,843,482	06/27/89	Hegendorfer	358/335	07/27/87
	4,855,842	08/08/89	Hayes et al.	358/342	08/06/87
	4,879,611	11/07/89	Fukui et al.	360/69	07/30/87
	4,885,579	12/05/89	Sandbank	340/825.72	04/25/88
	4,982,430	01/01/91	Frezza et al.	380/50	04/24/84
	4,993,066	02/12/91	Jenkins	380/16	02/26/87
	Re. 33,808	01/28/92	Wright, Jr.	358/86	08/28/85

\* If Pertinent

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION YES NO
	46,108	02/17/82	EPO	H04N 5/76	X
	49,184	04/07/82	EPO	G09B 7/08	X
	55,167	06/30/82	EPO	G09G 1/16	X
	56,649	07/28/82	EPO	H04N 5/44	
	77,712	04/27/83	EPO	H04N 7/00	X

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EXAMINER INITIAL	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION	
					YES	NO
	78,185	05/04/83	EPO	H04N 7/00		X
	1,189,612	06/25/85	Canada	Ho4n 7/08		
	1,204,190	09/03/70	Great Britain			
	1,213,357	11/25/70	Great Britain			
	1,216,977	01/20/87	Canada	HO4M 11/00		
	2,081,948	02/24/82	Great Britain	H04Q 9/00		
	2,090,504	07/07/82	Great Britain	H04N 3/16		
	2,103,455	02/16/83	Great Britain	H04N 1/00 7/12		
	2,164,229	03/12/86	Great Britain			
	2,167,917	06/04/86	Great Britain			
	2,356,969	05/22/75	Germany		X	
	2,496,376	06/18/82	France	H04N 7/00		X
	2,516,733	05/05/83	France	H04N 7/00		X
	2,831,014	04/03/80	Germany			X
	3,020,787	12/17/81	Germany	H04N 7/08		X
	3,039,949	05/06/82	Germany	H04M 3/42		X
	3,112,249	10/07/82	Germany	G09G 1/28		X
	53-068124	06/17/78	Japan		X	
	55-26792	02/26/80	Japan			X
	55-49084	04/08/80	Japan		X	
	55-79585	06/16/80	Japan			X
	58-156279	09/17/83	Japan			X
	58-209276	12/06/83	Japan		X	
	59-224988	12/17/84	Japan		X	
	60-123182	07/01/85	Japan		X	
	61-174889	08/06/86	Japan			X
	WO 83/00789	03/03/83	PCT Appl.	H04N 7/08		X

#### OTHER DOCUMENTS

EXAMINER INITIAL	DATE, AUTHOR, TITLE, PERTINENT PAGES, ETC.
	Various Articles following cover sheet titled "QVP - Pay Per View" 11/29/82
	"Advanced Minicomputer-based Systems for Banking and Financial Institutions," Money Management Systems, Incorporated, brochure, 1980, 9 pages.
	"Advanced Transmission Techniques," SMPTE Journal, Report on the 121st Technical Conference, January 1980, Vol. 89, pp. 31-32.
	"American National Standard" "dimensions of video, audio and tracking control records on 2-in video magnetic tape quadruplex recorded at 15 and 7.5 in/s," SMPTE Journal, October 1981, pp. 988-989.
	"American National Standard" "time and control code for video and audio tape for 525-line/60-field television systems," SMPTE Journal, August 1981, pp. 716-717.
	"Anderson: Progress Committee Report for 1979 - Television," SMPTE Journal, May 1980, Vol. 89, pp. 324-328.
	"Application of Direct Broadcast Satellite Corporation for a Direct Broadcast Satellite System," Before the Federal Communications Commission, Washington, D.C., Gen. Docket No. 80-603, July 16, 1981.
	"Cable TV Advertising," Paul Kogan Associates, Inc., No. 22, Feb. 18, 1981, 6 pages.
	"CAMP," Arbitron Cable, The Arbitron Company, product brochure, May 1980, 8 pages.
	"Contraband code," Closed Circuit, Broadcasting, Sep. 28, 1970, 1 page.
	"Did the ad run?," Media Decisions, July 1969, pp. 44 et seq.
	"Digisonics pushes its coding method," Broadcasting, Dec. 7, 1970, p. 37.



EXAMINER INITIAL	DATE, AUTHOR, TITLE, PERTINENT PAGES, ETC.
	"DIGISONICS TV Monitor System Finds Defenders," Advertising Age, Dec. 8, 1969, 1 page.
	"Digisonics violated standards, says BAR," Broadcasting, Oct. 5, 1970, pp. 21-23.
	"Digisonics' Aim Is Info Bank, Not Just Proof of Performance," Advertising Age, Nov. 9, 1970, 4 pages.
	"Digisonics' dilemma," Media Decisions, June 1971, 6 pages.
	"Everything you've always wanted to know about TV RATINGS," A.C. Nielsen Company, brochure, 1978.
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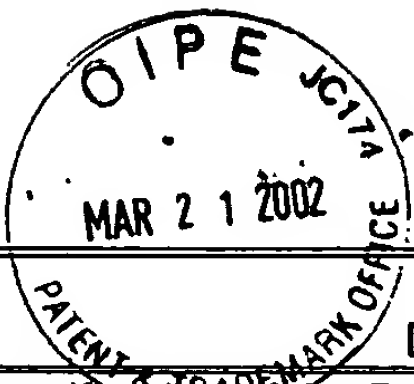
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